

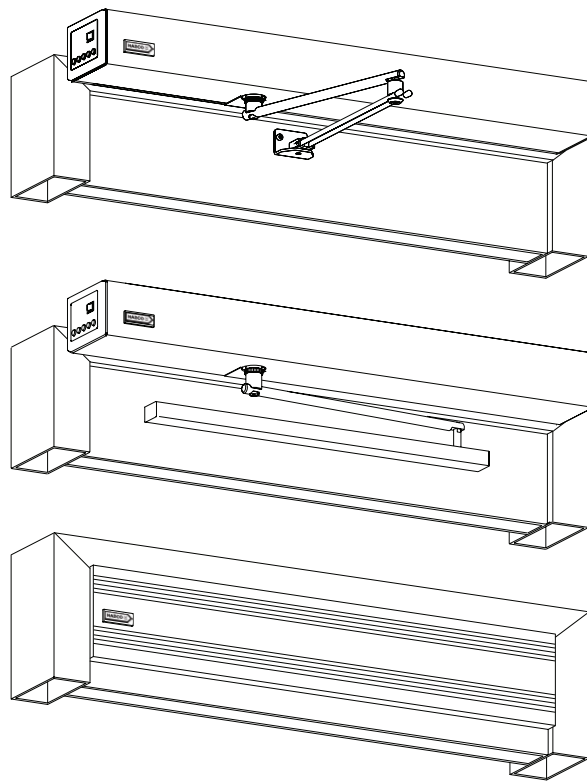


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Model GT20 Full Energy and Low Energy Power Operated Doors

OWNER'S MANUAL

A Founding Member of: AAADM
(American Association of Automatic Door Manufacturers)



DN 1145

WARNING

- Turn OFF all power to the Automatic Door if a Safety System is not working.
- Instruct the Owner to keep all power turned OFF until corrective action can be achieved by a NABCO trained technician. Failure to follow these practices may result in serious consequences.
- NEVER leave a Door operating without all Safety detection systems operational.

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Chapter 1: Warning Labels

Please refer to this page in the event that a warning label is displayed within this manual and further definition needs to be explained.

WARNING

Indicates a hazardous situation which has *some* probability of severe injury. It should not be considered for property damage unless personal injury risk is present.

CAUTION

Indicates a hazardous situation which *may result in a minor injury*. Caution should not be used when there is a possibility of serious injury. Caution should not be considered for property damage accidents unless a personal injury risk is present.

Notice:

Indicates a statement of company policy as the message relates to the personal safety or protection of property. Notice should not be used when there is a hazardous situation or personal risk.

Note: Indicates important information that provides further instruction.

Chapter 2: Limited Warranty

NABCO Entrances Inc., for its Gyro-Tech product line, provides to its purchasing distributor a limited warranty on the equipment supplied by NABCO Entrances Inc. The warranty is:

NABCO Entrances Inc. will exchange or repair, F.O.B. the NABCO Entrances Inc. plant any unit component found defective in workmanship and/or material, subject to NABCO inspection, for a period of one (1) year from date of installation. Warranty does not include field service labor. The installing contactor/distributor shall be responsible for installation and field service.

This warranty does not cover loss or damages resulting from causes beyond the manufacturer's control, or misuse, neglect, accident, wind storm, acts of terrorism or acts of God. Warranty is for normal use and service. The warranty will not apply for equipment which has been repaired or altered so as to adversely affect conditions of operation. Warranty will not obligate NABCO for damages resulting from such alterations, misuse, neglect, terrorism or acts of God.

Chapter 3: Service Availability

Low Energy and Full Energy automatic door systems are distributed through a nationwide network of authorized suppliers for sales, installation, and service.

Immediately contact the Door Manufacturer or the Authorized Door Manufacturer Representative, if service must be performed on a Low Energy automatic door system.

Chapter 4: To Our Customers

The purpose of this manual is to provide the owner and/or caretaker a description of operation and maintenance requirements for the Full Energy and Low Energy automatic door system, and to also provide instruction for a Daily Safety Check.

It is essential for the owner and/or caretaker to recognize the importance of *maintaining* each automatic door system.

It is the responsibility of the owner and/or caretaker to *inspect* the operation of each automatic door system - daily - to ensure pedestrian safety and personal protection.

WARNING

Should the door fail to operate as prescribed in the Daily Safety Check, or at any other time for any other reason, **DO NOT** attempt to repair or adjust the door. Call an AAADM Certified technician. These technicians are trained to service automatic door systems in accordance with ANSI/BHMA A156.10 (Full Energy) or ANSI/BHMA A156.19 (Low Energy).

Chapter 5: Provided Information

It is the responsibility of the Automatic Door Installer to ensure the following information for each automatic door system has been provided to the owner and/or caretaker:

- ▶ Number to call for service or questions about your system if you are uncertain of any condition or situation.
- ▶ Warranty information for each door.
- ▶ Instruction on how to conduct the Daily Safety Check.
- ▶ Location of function switches and instruction in their use.
- ▶ Circuit breaker or main power-disconnect location for each door system.
- ▶ AAADM inspection form or a work order signed by an AAADM Certified Inspector.
- ▶ A completed annual ANSI compliance inspection label located at the bottom of the safety information label affixed to the door.

Note: If there are any problems, or if the safe performance of the door is in question, discontinue door operation immediately and secure in a safe manner. Call an authorized automatic door professional for repair.

Note: AAADM Daily Safety Check videos are available. Contact the Authorized Door Supplier or AAADM.

Chapter 6: Compliance with Safety Standards

To ensure safe operation of the automatic door system, it is the responsibility of the owner or caretaker to ensure the following regulations are maintained according to ANSI/BHMA A156.10 (Full Energy); ANSI/BHMA A156.19 (Low Energy):

- Proper signage and labels must be applied and maintained on each Door Panel.
- If signage is removed or cannot be read, request replacement when calling for service.

The American Association of Automatic Door Manufacturers (AAADM), has established a program to certify automatic door inspectors. Through this program, inspectors are trained to check Low Energy and Full Energy automatic door systems for compliance with the American National Standards Institute standard ANSI/BHMA A156.10 (Full Energy); ANSI/BHMA A156.19 (Low Energy).

Chapter 7: General Safety Checks

An ecologically acceptable disposal of the installation is ensured if the different materials are separated and recycled. No particular measures are required for the protection of the environment. However, the relevant legal prescriptions applicable for the installation site have to be complied with!



CAUTION

If the GT20 Control will not be used for at least (1) month, it is recommended to turn the Power OFF to the unit.

CAUTION

In order to guarantee reliability of the installation, any components showing signs of wear must be replaced as a preventive measure.

- ▶ Housekeeping: Check the door area for tripping or slipping hazards.
- ▶ Damage:
 - Check all door panels for damage.
 - Make sure that all hardware and overhead covers are properly secured. There should be no bulletin boards, literature racks, merchandise displays, or other attractions in the door area that would interfere with use of the door or invite people to stop or stand in the door area.

- ▶ Breakout Stop (OHC):
 - For *OHC Inswing* Doors that are Center pivoted may be supplied with an Emergency Breakout Stop or Switch that will allow the door to open in the direction of emergency egress.
 - When the door is pushed into the breakout mode, check that door will not activate.
 - Call your supplier for details.
- ▶ Guide Rails:
 - Check that guide rails or other barriers or separators are present (two per swing door side) and firmly anchored. Rail length should be the width of the open door or greater. Please see Figure 1.
- ▶ Activating Switch (Knowing Act):
 - Doors equipped with a manual activating switch shall hold fully open for a minimum of 5 seconds before closing.
 - Doors equipped with a manual activating switch shall have a decal as follows: "Automatic Door. Activate Switch to Operate." The decal should be visible from both sides of the door.
- ▶ Traffic Patterns: Observe traffic patterns. Plan routing so pedestrians enter and exit in a straight approach, directly toward the center of the door opening.
- ▶ Finger Guard: If installed, inspect the Finger Guard to see that it is secure and in good repair. Please see Figure 1.

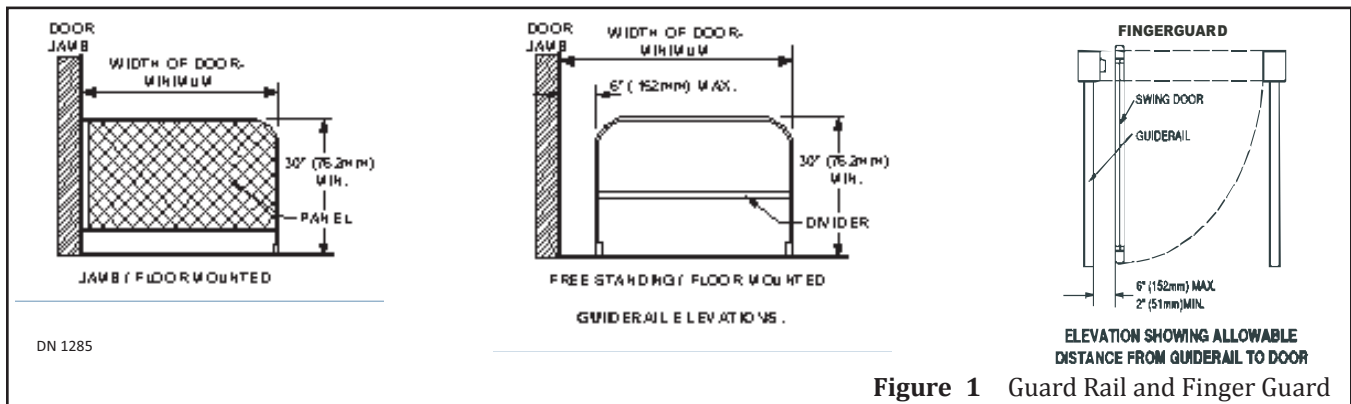


Figure 1 Guard Rail and Finger Guard

Chapter 8: Power Switch/Program Selector

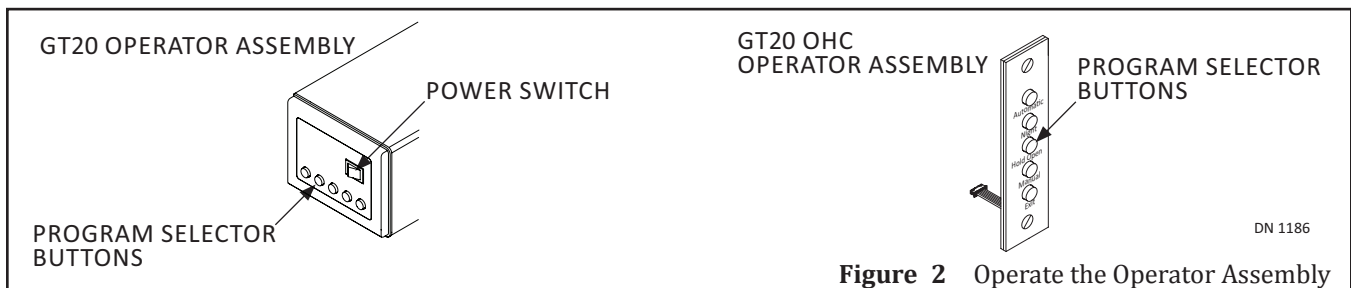


Figure 2 Operate the Operator Assembly







Section 8.1: Power Switch

- ▶ GT20 Operator Assembly
 - The Power Switch is utilized to turn ON/OFF the power supply to the Operator Assembly.
- ▶ GT20 OHC Assembly
 - The Power Switch is located inside the Header.

Section 8.2: Program Selector Buttons (Not for the GT20 OHC)

By pressing the appropriate LED Button, the Program Selector is utilized to activate Operating Modes. Each LED Button is identified by an Icon. Please see Table 1.

Table 1 Operating Modes

Automatic		<ul style="list-style-type: none"> ▶ Door Panel is opened by an Activation Device or a Knowing Act. ▶ Door Panel is closed upon expiration of the adjustable hold-open time.
Night		Door Panel can only be opened by an Activation Device connected to a Key Terminal (Example: an exterior card reader).
Open		Door Panel will fully open and remain in the Full Open position.
Manual		<p>All activation devices are ignored, Door Panel must be opened manually. An Internal Spring is utilized to:</p> <ul style="list-style-type: none"> ▶ Close the Door Panel for Standard Applications. ▶ Open the Door Panel for Inverse Applications (Locked Door Panels only).
Exit		One Way: The Door Panel is opened by an <i>Interior Activation Device</i> only.
TEACH		N/A
All LED Buttons will flash in the event of a pending fatal error.		

Chapter 9: Daily Servicing

WARNING

Electrocution hazard. When servicing the unit, turn power OFF at the circuit breaker in the building’s electrical box, unless it is necessary for adjustments.

Notice: Use Mild Soap to clean.

Installation and Control Elements	Check	Clean
Description		
General Condition	X	
Free door movement (manually)	X	
Guide Rails	X	X
Weather Stripping	X	X
Header Cover	X	X
Force to prevent the door from closing should not exceed 15 pounds. Can be measured with a force gauge.	X	
<ul style="list-style-type: none"> ▶ Center pivoted Inswing Doors may be supplied with an emergency breakout stop or a switch allowing the door to open in the direction of emergency egress. When the door is pushed into breakout mode, check that the door will not activate. ▶ Call supplier for details. 	X	
All existing Control elements such as: Sensors, Key-operated Switches, Floor Control Mats, etc.	X	X
Stickers, AAADM labels	X	X

Chapter 10: Daily Safety Check for Low Energy Units

CAUTION

If a problem exists, turn OFF the POWER. Call the Automatic Door Supplier.

1. Activate the Door Panel. The Door Panel should open at a slow smooth pace (4 seconds or more) and then stop without impact.
2. The Door Panel must remain fully open for a minimum of 5 seconds before beginning to close.
3. The Door Panel should close at a slow smooth pace (4 seconds or more) and stop without impact.
4. Inspect the floor area. It should be clean with no loose parts that might cause user to trip or fall. Keep traffic path clear.
5. Inspect each Door Panel's overall condition. The appropriate signage should be present and the hardware should be in good condition.
6. Have the Low Energy automatic door system inspected annually by an AAADM certified inspector.

Chapter 11: Daily Safety Check for Full Energy Units

Section 11.1: Floor Mat Activation/Floor Mat Safety

1. Step on the "opening" (activating) mat. Please see Figure 5.
 - a. It is necessary to have a safety mat covering the entire area the door swings over.
2. Step through the doorway onto the safety mat and remain motionless for 4 seconds. The door should remain open. Repeat at several locations on the mat.
3. Step off the safety mat. After a brief time delay (at least 1 1/2 seconds) the door should close smoothly without impact.
4. With the door closed, step on the *safety mat* on the swing side while someone steps on the *activating mat*. Door should remain closed as long as someone remains on the safety mat.
5. Check the mat molding and threshold. It should be complete and secured with required screws.

CAUTION

If a Safety Mat is not working, door may swing toward you without stopping.

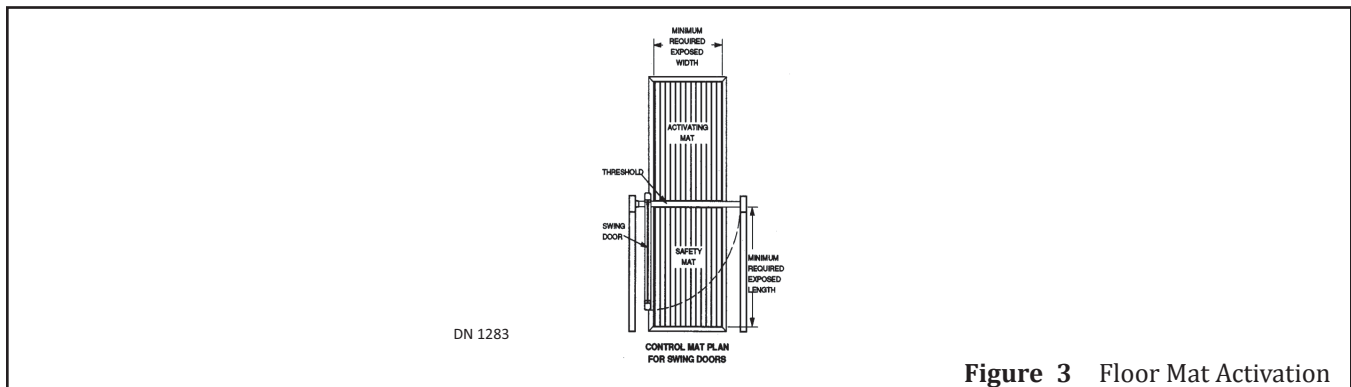


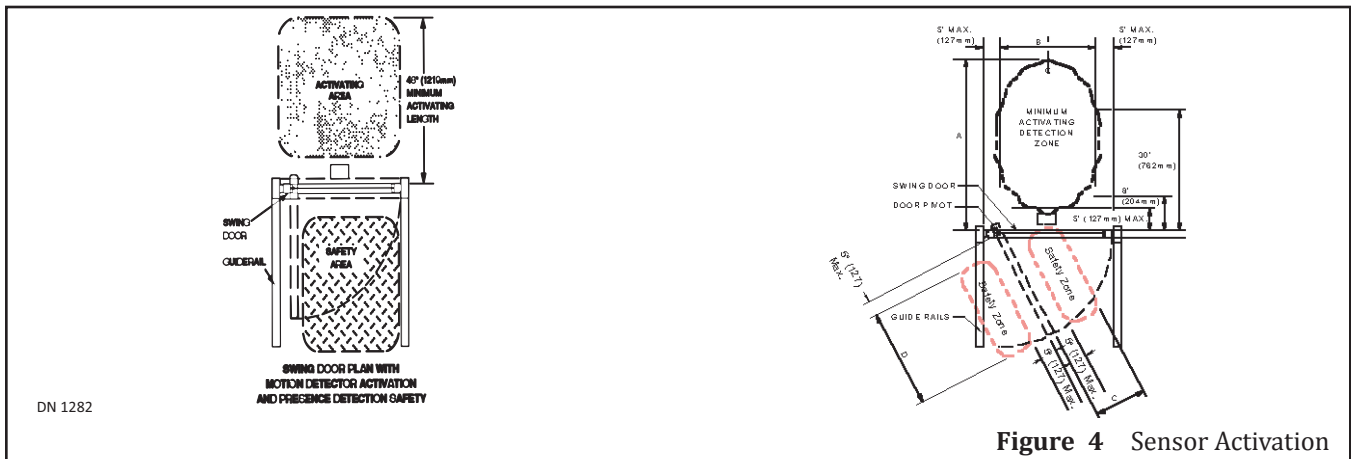
Figure 3 Floor Mat Activation

Section 11.2: Sensor Activation / Presence Detection Safety

CAUTION

If a Safety Sensor is not working, door may swing toward you without stopping

1. Check the Activation Sensor on the Push Side, by walking toward the door opening at a moderate speed.
 - a. The door should start opening when you are about four feet from the door, should open smoothly and stop at fully open without impact.
2. Move slowly through the door opening (6 inches per second), stop in the swing path and pause for 10 seconds. Please see .
 - a. The door should remain open. If two way traffic, repeat from the other side of the door.
3. Step out of the sensor zone.
 - a. After a brief time delay (at least 1 1/2 seconds) door should close smoothly without impact.
 - b. For one way traffic doors, approach the safety side of the door, then have someone else approach the activating side of the door.
 - c. If the door is equipped with an overhead mounted presence sensor, as long as you are in the safety area of the door it should not open.
 - d. If the door is equipped with a door mounted presence sensor, the door may start to open but should reverse, stop, or slow down.
4. Crouch motionless in the door opening for at least 4 seconds.
 - a. If the door is equipped with an overhead mounted presence sensor, the door should not close. Instead the door should reverse, stop, or slow down.



Section 11.3: Double Egress-Using Knowing Act

1. Double Egress doors are commonly activated by a knowing act switch. Momentarily operate a knowing act switch.
 - a. Doors should open smoothly and stop at fully open without impact.
 - b. Doors should remain fully open for a minimum of 5 seconds before closing.
2. As the door closes, approach the door from the non-swing side. The door should reopen.
3. Continue across the threshold and stand motionless for 10 seconds.
 - a. Door should not contact you.
4. Continue through the door and the door should start closing after a minimum of five seconds.
 - a. Door should close smoothly and without impact.

5. Approach the safety side of the door. Have someone else activate the knowing act switch.
 - a. If the door is equipped with an overhead mounted presence sensor, as long as you are in the safety area of the door, it should not open.
 - b. If the door is equipped with a door mounted presence sensor, the door may start to open but should reverse, stop, or slow down.
6. Repeat for the other door panel.

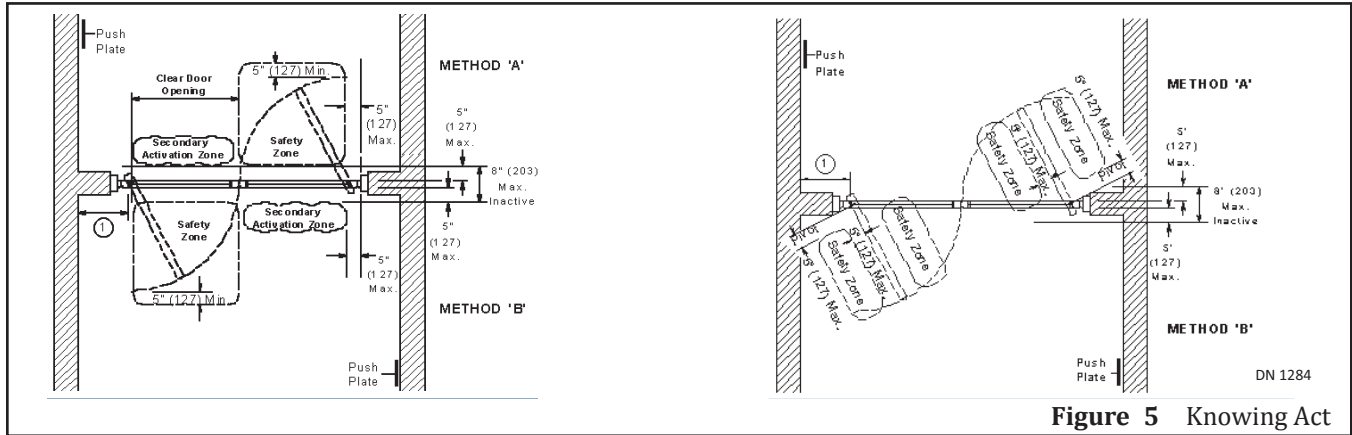



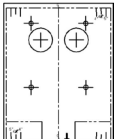
Figure 5 Knowing Act

Chapter 12: Signage for Full Energy Units

Decal	Description	
One Way Traffic	Shall be visible from the approach side of a swinging door, mounted on the door. The decal shall have a green circle surrounding a black arrow on a white background.	
One Way Traffic: DO NOT ENTER	If one-way traffic, an international "DO NOT ENTER" decal shall be visible from the side that would swing toward pedestrians attempting to travel in the wrong direction. The decal shall have a red circle with the wording, "Do Not Enter", in white letters in the red circle	
Automatic Caution Door	<ul style="list-style-type: none"> ▶ Swinging doors serving two-way traffic shall be marked with a decal, visible from both sides of the door, with the words " Automatic CAUTION Door". The sign shall be made with black lettering on yellow background. ▶ One way traffic doors shall be marked on the non swing side with a decal with the words "Automatic Door" 	
Header Template	Used for OHC Swing Doors only	
AAADM Safety Information Label (Full Energy Swing Doors)	<ul style="list-style-type: none"> ▶ Adhered to Jamb Tube on Interior Side of Door Panel. ▶ For additional decals or labels for automatic doors, call your automatic door supplier. 	

Chapter 13: Signage for Low Energy Units

Note: For additional decals or labels for automatic doors, call your automatic door supplier.

Decal	Description	
<p>Activate Switch to Operate</p>	<ul style="list-style-type: none"> ▶ (2) Activate Switch signs, shall be adhered to both sides of door, with the words “Automatic Caution Door and Activate Switch to Operate” to be clearly visible. ▶ The sign shall be a minimum of 6 inches in diameter. Black lettering shall be a minimum 5/8 inch tall on a yellow background. White lettering shall be a minimum 1/2 inch tall on a blue background. 	
<p>Header Template</p>	<p>Used for OHC Swing Doors only</p>	
<p>AAADM Safety Information Label (Low Energy Swing Doors)</p>	<ul style="list-style-type: none"> ▶ (1) Safety Information sign shall be adhered to Jamb Tube on Interior Side of Door Panel. ▶ The sign shall be a minimum of 9 inches tall. Black lettering shall be a minimum of 10 point type on a white background. White lettering shall be a minimum of 10 point type on a blue background. 	